THE MINISTER OF STATE OF THE MINISTRY OF PLANNING AND PROGRAMME IMPLEMENTATION AND MINISTER OF STATE OF THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI YOGINDER K. ALAGH): (a) Yes, Sir.

(b) Government have noted the contents of Dr. Gopalakrishnan's statements and are conscious of the need for ensure-ing safety in all nuclear installations. All safety issues are discussed in the Plant and Unit Level Safety Committees of the Atomic Energy Regulatory Board and in the Safety Review Committee for Operating Plants (SARCOP) and are resolved at the respective levels.

(c) No, Sir.

Vertical Solar Energy Pannels

1802. DR SHRIKANT RAMCHANDRA JICHKAR:
SHRIMATI BASANTI SARMA:

Will the PRIME MINISTER be pleased to state:

(a) whether vertical Solar Energy Pannels are available in the country;

(b) if so, where and what is its unit cost;

(c) whether Government are aware that vertical pannels would be more popular; and

(d) if so, what steps are being taken to popularise such pannels?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (DR. S. VENUGOPALACHARI): (a) and (b) Flat plate panels for solar energy conversion through the photovoltaic and thermal routes are manufactured in the country by a number of public and private sector companies. These panels are normally mounted at an inclination so that maximum possible solar energy incident on the panel surface can be utilised. The unit cost of a photovoltaic module is about Rs. *175/-* per watt. The unit cost of a solar thermal collector is about Rs. 4,000/- per sq. meter of collector area.

(c) and (d) Flat plate solar panels for photovoltaic and thermal applications are already in use in the country. An aggregate area of 4.0 lakh sq. meters of solar collectors has been installed in the country for water heating, drying and desalination. An aggregate of over 18 MW of photovoltaic systems have been installed for applications such as lighting, water pumping, telecommunication, etc.

A number of fiscal and other incentives are available for the manufacture and use of solar energy products, such as 100% depreciation for income tax purposes, exemption from excise duty, concessional rates of custom duties and soft loan. In addition, subsidy is also available for some solar energy applications.

Selection on sites for establishing Oil Refineries

1803. SHRIMATI JAYANTI PATNAIK: Will the PRIME MINISTER be pleased to state:

(a) whether Government have selected sites for the establishment of oil refineries in the country;

(b) if so, the sites selected for the purpose in Orissa;

(c) the number of oil refineries proposed to be set up during the 8th and 9th Five Year Plans;

(d) the details of steps taken to expedite the establishment of those oil refineries?

THE MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI T.R. BAALU): (a) to (d) New Refineries Projects to be set up/under implementation by PSUs/ JVCs during the 8/9th Plan period in Public /Joint Sector are as follow:—

Name of the refinery
Public Sector

1. Panipat Refinery.

2. Numaligarh Refinary
3. Crude distillation unit at Narimanam (Already Commissioned)

Joint Sector

1. Mangalore Refinery & Petrochemicals Limited by HPCL and M/s. Indian Rayon & Industries Limited. (Partly Commissioned)
2. Eastern India Refinery as a joint venture of Indian Oil Corporation and Kuwait Petroleum Corporation.
3. Western India Refinery as a joint venture of HPCL & Oman Oil Company.
4. Central India Refinery at Bina as a joint venture between BPCL and Oman Oil Company.

Governemnt has also granted Letters of Intent for setting up of refineries in Joint Venture, as under:—

(i) Setting up of refinery in U.P. by BPCL & Shell International.

(ii) Setting up of refinery in Punjab by HPCL and Saudi Aramco.

Government has accorded Stage-I clearnace to IOC for their Eastern India Refinery Project. Action for preparation of DFR has been initiated by IOC. The exact location of the refinery will be decided based on Detailed Feasibility Report.

The progress of these projects is reviewed to expedite implementation.

Food Processing Units by Multinationals

1804. SHRI RAHASBIHARI BARIK: Will the Minister of FOOD PROCESSING INDUSTRIES be pleased to state:

(a) whether some multinational companies have started Food Processing Units in the country;

(b) if so, the State-wise details thereof; and

(c) the number and the details of units set up by these multianational companies during the last three years?

THE MINISTER OF STATE OF THE MINISTRY OF FOOD PROCESSING INDUSTRIES (SHRI DILIP KUMAR RAY): (a) to (c) During the last three years, 81 units with foreign investment have been set up in the various sectors of food processing Statewise number of such units is as per Statement.

State	No. of U
Andhra Pradesh	10
Goa	7
Gujarat Haryana	1
Himachal Pradesh	6
	2
Karnataka	8
Kerala	12
Maharashtra	13
Orissa	1
Punjab	4
Rajasthan	2
Tamil Nadu	7
Uttar Pradesh	6
West Bengal	2
Total:	81

Alternative Sites for Industries to be Shifted out of Delhi

1805. SHRI S.M. KRISHNA: Will the PRIME MINISTER be pleased to state:

(a) whether any alternative sites have been found for the polluting industries to be shifted from the residential areas, as per the orders of the Supreme Court;

(b) if so, the details thereof; and

(c) the manner in which the land to be vacated by these industries is to be utilised and the terms on which the new sites are being given to the polluting industries?

THE MINISTER OF STATE IN THE MINISTRY OF URBAN AFFAIRS